

PI Lee SY, Choi Y;
XX WPI: 2002-225005/28.
DR P-PSDB: AAE19853.
XX
PT New tumor necrosis factor receptor associated factor interacting
PT protein, useful for inhibiting NF-kappa B activation, and for
PT modulating signals responsible for cell activation, cell proliferation
PT and cell death -
XX
PS Example 2; Fig 8a; 37pp; English.
XX
CC The present invention relates to a tumour necrosis factor (TNF) receptor
CC associated factor (TRAF) interacting protein (TRIP), which is a regulator
CC capable of binding to TRAF2. TRIP is useful for inhibiting NF-kappa B
CC activation and for modulating signals responsible for cell activation,
CC cell proliferation and cell death. Thus, TRIP is useful for treating
CC diseases associated with altered cell proliferation and cell death. The
CC present sequence is human TRIP cDNA.
SQ Sequence 2007 BP: 517 A; 518 C; 558 G; 414 T; 0 other:

Query Match 100.0%; Score 2007; DB 24; Length 2007;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2007; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GTGGCGTGGAGCAATTTGAAGCAAGCGAGCGCGCTCTACGAAGCCGGACTGT 60
DB 1 GTGGCGTGGAGCAATTTGAAGCAAGCGAGCGCGCTCTACGAAGCCGGACTGT 60
OY 61 AGCAGTTCTTTGGCTGCTGCGTGGCCCTTGAATCCAGCCATGCTATCCGTCTG 120
DB 61 AGCAGTTCTTTGGCTGCTGCGTGGCCCTTGAATCCAGCCATGCTATCCGTCTG 120
OY 121 TGCATATCTGCTCGACTCTTTCATCATCTCCCGAGAGTGGCCCATTCACGCGGC 180
DB 121 TGCATATCTGCTCGACTCTTTCATCATCTCCCGAGAGTGGCCCATTCACGCGGC 180
OY 181 CACACCTTCCACTTGCAGTGCCTAATTCAGTCTTGAGACAGACCAATGCGACTGC 240
DB 181 CACACCTTCCACTTGCAGTGCCTAATTCAGTCTTGAGACAGACCAATGCGACTGC 240
OY 241 CCACAGTGGCGAATCAGGTTGGCAAGAACCATTTATTAATAGCTCTTTTGTATCTT 300
DB 241 CCACAGTGGCGAATCAGGTTGGCAAGAACCATTTATTAATAGCTCTTTTGTATCTT 300
OY 301 GCCCAGAGAGAGAGATCTTGATGAGATCTTAAAGATGAATGAGCAATGTC 360
DB 301 GCCCAGAGAGAGAGATCTTGATGAGATCTTAAAGATGAATGAGCAATGTC 360
OY 361 AGAGCCAGCTTTCAGAAAGACAAGAGACAGACAGCCAGGTCATCTGACACT 420
DB 361 AGAGCCAGCTTTCAGAAAGACAAGAGACAGACAGCCAGGTCATCTGACACT 420
OY 421 CTGGCGGATACCTTGAGAACGCAATGCTACTGTGTATCTCTGACAGCGCTTGGGC 480
DB 421 CTGGCGGATACCTTGAGAACGCAATGCTACTGTGTATCTCTGACAGCGCTTGGGC 480
OY 481 AAGGCGAGATGCTGTGCTCCACACGAAAGAGATGAATAGCTTAGAGAGAGCAG 540
DB 481 AAGGCGAGATGCTGTGCTCCACACGAAAGAGATGAATAGCTTAGAGAGAGCAG 540
OY 541 GATGAGACCAAAACAAGACAAGAGAGGCGCGCTCAGAGACAAGATGAAGACATG 600
DB 541 GATGAGACCAAAACAAGACAAGAGAGGCGCGCTCAGAGACAAGATGAAGACATG 600
OY 601 GAGCAGATTGAGCTTCTACTCCAGAGCCAGCTCCTGAGAGTGAAGATGATCCGAGAC 660
DB 601 GAGCAGATTGAGCTTCTACTCCAGAGCCAGCTCCTGAGAGTGAAGATGATCCGAGAC 660
OY 661 ATGGATGGGAGCAGTCAAGCGGTGAGACAGTGGCTGTCTACTGTGTCTCAAGAAA 720
DB 661 ATGGATGGGAGCAGTCAAGCGGTGAGACAGTGGCTGTCTACTGTGTCTCAAGAAA 720

OY 721 GAGTACGAGATCTTAAAGAGCAGGAGGCTCAGGGGAGTGGCTGACAAGCTGAG 780
DB 721 GAGTACGAGATCTTAAAGAGCAGGAGGCTCAGGGGAGTGGCTGACAAGCTGAG 780
OY 781 AAGGATTTGTTTTCTCCAGAAAGCAAGTTGCAGACAGTCTACTGTGAATTTGATGAGCC 840
DB 781 AAGGATTTGTTTTCTCCAGAAAGCAAGTTGCAGACAGTCTACTGTGAATTTGATGAGCC 840
OY 841 AAGTTAAGACTAAGTCAAGCCCAAGAGACTTACAGAGTGTGACAAAGAAATCTATGAGC 900
DB 841 AAGTTAAGACTAAGTCAAGCCCAAGAGACTTACAGAGTGTGACAAAGAAATCTATGAGC 900
OY 901 CTGAAAAAAGACTAAGCAAGTGTGAGAAACCTTGAACCTGCCACAGTGGCCAGTGAAG 960
DB 901 CTGAAAAAAGACTAAGCAAGTGTGAGAAACCTTGAACCTGCCACAGTGGCCAGTGAAG 960
OY 961 ACTGTGACCGCTGTGTTTAAAGAGCCAGCCCTGTGTGAGGTGAATCTGAAGCTCCGC 1020
DB 961 ACTGTGACCGCTGTGTTTAAAGAGCCAGCCCTGTGTGAGGTGAATCTGAAGCTCCGC 1020
OY 1021 CGGCCATCTTCCGATGATATTTGATCTCATGCTACTTGTATGTGATCTCCCA 1080
DB 1021 CGGCCATCTTCCGATGATATTTGATCTCATGCTACTTGTATGTGATCTCCCA 1080
OY 1081 GCCCGCCCTCCAGCTCCAGCATGTTTACGAAAAAATTGGCTAGAGAAATGTCACAC 1140
DB 1081 GCCCGCCCTCCAGCTCCAGCATGTTTACGAAAAAATTGGCTAGAGAAATGTCACAC 1140
OY 1141 TCCCAATTCAGATGTCCCAAGAAAGATATCAAAAGGCCCAAGAAAGAGTCCACGCTC 1200
DB 1141 TCCCAATTCAGATGTCCCAAGAAAGATATCAAAAGGCCCAAGAAAGAGTCCACGCTC 1200
OY 1201 TCACTGGGTTGTCAGAGCTGTGACAGAGCCAGATGAGGAATGTTGTTGCTTCCCT 1260
DB 1201 TCACTGGGTTGTCAGAGCTGTGACAGAGCCAGATGAGGAATGTTGTTGCTTCCCT 1260
OY 1261 ATTTTGTCCGGAATGCCATCTCAGGCCAGAAACAGCCCAAAAGGCCAGGTCAAGATCC 1320
DB 1261 ATTTTGTCCGGAATGCCATCTCAGGCCAGAAACAGCCCAAAAGGCCAGGTCAAGATCC 1320
OY 1321 TCTTGACGAAAGATGTGTGAAGGACAGGCTTCGATGGGCTGGGTGGGCAAAATTC 1380
DB 1321 TCTTGACGAAAGATGTGTGAAGGACAGGCTTCGATGGGCTGGGTGGGCAAAATTC 1380
OY 1381 ATCCAGCTACTGACACAGTCAATCCGCCCATTTGCCGTTAAGCCCAAGCAAGGTT 1440
DB 1381 ATCCAGCTACTGACACAGTCAATCCGCCCATTTGCCGTTAAGCCCAAGCAAGGTT 1440
OY 1441 AAGCAGAGGTTGAGGTTGAAGACCGTGCCTTCTCTTCCAGGCCAAGCTGACACCTTC 1500
DB 1441 AAGCAGAGGTTGAGGTTGAAGACCGTGCCTTCTCTTCCAGGCCAAGCTGACACCTTC 1500
OY 1501 CTGTGCTGCTGGAACAGTGAATGATGACCAATGCGCAGACATCTCTGCAACTGTGAG 1560
DB 1501 CTGTGCTGCTGGAACAGTGAATGATGACCAATGCGCAGACATCTCTGCAACTGTGAG 1560
OY 1561 TCAAGAGACTGTCCAGAGAGGTTTGTGACAGAGCCCTAATCTTGGAGACCACTGAGGT 1620
DB 1561 TCAAGAGACTGTCCAGAGAGGTTTGTGACAGAGCCCTAATCTTGGAGACCACTGAGGT 1620
OY 1621 GTAAGGCGAGACAAACAGTGAAGGTGAGTGTGACACCCAGAGACTGCTCTTCCGCCCT 1680
DB 1621 GTAAGGCGAGACAAACAGTGAAGGTGAGTGTGACACCCAGAGACTGCTCTTCCGCCCT 1680
OY 1681 CACCCCTGCCCATCTCTACAGTGGAGGTGACATGACAGCCCACTATCTCTGCAGACA 1740
DB 1681 CACCCCTGCCCATCTCTACAGTGGAGGTGACATGACAGCCCACTATCTCTGCAGACA 1740
OY 1741 GGTCTGCTGTGTGCAAGGCTTGTATATAGCATGATGATGATGTGATGATCTT 1800
DB 1741 GGTCTGCTGTGTGCAAGGCTTGTATATAGCATGATGATGATGTGATGATCTT 1800


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Oy 1064 ATGTGGATCTCCCGAGCCGCCCTCCAGCTCCAGCATGTTACTACGAAAACTTT 1123
    |||
Db 1064 ATGTGGATCTCCCGAGCCGCCCTCCAGCTCCAGCATGTTACTACGAAAACTTT 1123
Oy 1124 GCTTAGAAGATCACACTCCCAATTCCAGGATGTCCCCAGAAAGATATGCAAGGCCCA 1183
    |||
Db 1124 GCTTAGAAGATCACACTCCCAATTCCAGGATGTCCCCAGAAAGATATGCAAGGCCCA 1183
Oy 1184 GGAAGAGTCCAGCTCTACTGGGTGGCCAGAGCTGTGCAGAGAGCCAGATGAGAAC 1243
    |||
Db 1184 GGAAGAGTCCAGCTCTACTGGGTGGCCAGAGCTGTGCAGAGAGCCAGATGAGAAC 1243
Oy 1244 TGGTGTGCTCTCCCTATTTTTTGTCCGGAATGCCATCCCTAGGCCAGAAAAAGCCCAAA 1303
    |||
Db 1244 TGGTGTGCTCTCCCTATTTTTTGTCCGGAATGCCATCCCTAGGCCAGAAAAAGCCCAAA 1303
Oy 1304 GGCCCAAGTCAAGATCTCTTCCAGCAAAAGATGTGTAAGACAGAGCTTCATGGGCTCG 1363
    |||
Db 1304 GGCCCAAGTCAAGATCTCTTCCAGCAAAAGATGTGTAAGACAGAGCTTCATGGGCTCG 1363
Oy 1364 GTGGCCGCAAAATTCATCCAGCTACTGACACAGTCATGATCCGCCCATTTGCCCTGTTA 1423
    |||
Db 1364 GTGGCCGCAAAATTCATCCAGCTACTGACACAGTCATGATCCGCCCATTTGCCCTGTTA 1423
Oy 1424 AGCCCAAGACCAAGGTTAAGCAGAGGGTGAGGGTGAAGACCGCTGCTCTCTTCCAGG 1483
    |||
Db 1424 AGCCCAAGACCAAGGTTAAGCAGAGGGTGAGGGTGAAGACCGCTGCTCTCTTCCAGG 1483
Oy 1484 CCAACTGGAACCTTCTCTGTGTGTGTGAGAACAGTGAAGTCTGACCAATGGCCAGACACA 1543
    |||
Db 1484 CCAACTGGAACCTTCTCTGTGTGTGTGAGAACAGTGAAGTCTGACCAATGGCCAGACACA 1543
Oy 1544 TGCCTGCAACTGTGATGATCAAGAGCTGTCCAGGCAAGG--TTTGTGAGAGAGCCCTACT 1601
    |||
Db 1544 TGCCTGCAACTGTGATGATCAAGAGCTGTCCAGGCAAGGTTTGTGTGAGAGAGCCCTACT 1601
Oy 1602 TTGGGGACCAAGCTTGAAGTGAAGGCAAGCAAGAGTGAAGGTTGATGACACCCAG 1661
    |||
Db 1602 TTGGGGACCAAGCTTGAAGTGAAGGCAAGCAAGAGTGAAGGTTGATGACACCCAG 1661
Oy 1662 AGACTGCTTCTCTGCTCCCTCAACCTGCCCCACTCTAGCACTGGGAGCTGACATGACCAAG 1721
    |||
Db 1662 AGACTGCTTCTCTGCTCCCTCAACCTGCCCCACTCTAGCACTGGGAGCTGACATGACCAAG 1721
Oy 1722 CCCACTGATCTCTGTCAGCAGAGTCTGCT--CTGTTGCCAAGCTCTTGTATATGACATGAT 1780
    |||
Db 1722 CCCACTGATCTCTGTCAGCAGAGTCTGCT--CTGTTGCCAAGCTCTTGTATATGACATGAT 1780
Oy 1781 CAGATGTGCTGACTCTTCTGCGCTGAGAGACCAAGCTCACTTGTGACTGTCTGT 1840
    |||
Db 1781 CAGATGTGCTGACTCTTCTGCGCTGAGAGACCAAGCTCACTTGTGACTGTCTGT 1840
Oy 1841 GGACAGAGTGTGAGGCAATCTCAGGACGCTCAGCCCAAGCTTCTACCTCCCTTTCAGC 1900
    |||
Db 1841 GGACAGAGTGTGAGGCAATCTCAGGACGCTCAGCCCAAGCTTCTACCTCCCTTTCAGC 1900
Oy 1901 TTGCTTTCTA--GCATAGCTTGCGCCCAAGCAGGTTGGGAATGAGAGATAGACATGGGATGT 1959
    |||
Db 1901 TTGCTTTCTA--GCATAGCTTGCGCCCAAGCAGGTTGGGAATGAGAGATAG--CATGGGATGT 1959
Oy 1960 ATGAGAGAGATGAAAGATTTTCCGAAAAA 2007
    |||
Db 1960 ATGAGAGAGATGAAAGATTTTCAATAATTAATAA 2010
    |||

RESULT 3
AAV29062
ID AAV29062 standard; cDNA; 2065 BP.
xx
AC AAV29062;
xx
DT 28-AUG-1998 (first entry)
xx
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DE BRCA1 modulator protein 091-21A31 cDNA.
xx
KW BRCA1 modulator protein; 091-21A31; breast cancer antigen 1;
KW tumour suppressor protein; diagnosis; therapy; human; ss.
OS Homo sapiens.
FH Key Location/Qualifiers
FT CDS 103..1512
FT /tag= a
XX
XX WO9810066-A1.
XX
XX 12-MAR-1998.
XX
XX 06-AUG-1997; 97WO-US13944.
XX
XX 04-SEP-1996; 96US-0025601.
XX
XX (ONVX-) ONVX PHARM INC.
XX
XX LiGenfelder C, Polakis P, Rudinfield B, Vuong TT;
XX
XX WPI: 1998-193616/17.
XX
XX P-PSDB: AAW37881.
XX
XX Breast cancer antigen 1 modulator protein - useful for diagnosing
XX diseases involving unwanted cell growth, e.g. breast cancer, and for
XX producing therapeutics for treatment of such diseases
XX
XX Claim 5; Fig 1; 73pp: English.
XX
XX This cDNA clone, designated 091-21A31 (ATCC 98141), codes for
XX a 53 kDa BRCA1 modulator protein (see AAW37881) that binds to the
XX tumour suppressor gene product BRCA1, and which is characterised by
XX a zinc finger domain and a leucine zipper motif. 3 cDNA clones
XX (see also AAV29063 and AAV29064) coding for BRCA1 modulator proteins
XX (see AAW37881-83) were isolated from a HeLa cDNA library using a
XX yeast two-hybrid assay with a GAL4-BRCA1(8-1293) fusion as bait.
XX Vectors and host cells comprising the isolated nucleic acid
XX sequences are claimed, as well as a process for producing BRCA1
XX modulator protein by culturing these host cells. BRCA1 modulator
XX proteins and nucleic acids can be used to diagnose diseases
XX involving unwanted cell growth, e.g. breast cancer, and to identify
XX compounds that alter BRCA1 interaction with BRCA1 modulators for
XX the treatment of such diseases.
XX
SQ Sequence 2065 BP; 561 A; 528 C; 559 G; 417 T; 0 other:
Query Match 94.1%; Score 1887.6; DB 19; Length 2065;
Best Local Similarity 98.8%; Pred. No. 0;
Matches 1944; Conservative 0; Mismatches 19; Indels 5; Gaps 4;
Oy 44 TACGAAGCCGGACCTGTAGACATTTCTTGGCTGCTGGGCCCTTGAGTCCAGCCATCA 103
    |||
Db 44 TACGAAGCCGGACCTGTAGACATTTCTTGGCTGCTGGGCCCTTGAGTCCAGCCATCA 103
Oy 104 TGGCTATCCGTCGTCGTGCACTATCTGCTCGAATCTTGTGATCACTCCGCGAGCTGG 163
    |||
Db 104 TGGCTATCCGTCGTCGTGCACTATCTGCTCGAATCTTGTGATCACTCCGCGAGCTGG 163
Oy 164 CCGGCATCCACTGCGGGCCACACCTTCCACTTGCAGTGTGCAATTCAGTGGTTGAGACAG 223
    |||
Db 164 CCGGCATCCACTGCGGGCCACACCTTCCACTTGCAGTGTGCAATTCAGTGGTTGAGACAG 223
Oy 224 CACCAAGTGGACCTGCCACAGTCCGAATCCAGTGGGCAAAAGAACATTTATCAATA 283
    |||
Db 224 CACCAAGTGGACCTGCCACAGTCCGAATCCAGTGGGCAAAAGAACATTTATCAATA 283
Oy 284 AGCTCTTTTGTGATCTTCCCAAGAGGAGGAATGCTTGTGATGCAAAATTTTAAAGA 343
    |||
Db 284 AGCTCTTTTGTGATCTTCCCAAGAGGAGGAATGCTTGTGATGCAAAATTTTAAAGA 343
```

OY	344	ATTAACATGCAANTATGCAAGGCCACACTTTTCCACAAAGAACAGAGAAACAGACACAGCC	403
Db	344	ATGAACTGGAACAAATGTCAGAGCCACACTTTCCAGAAACAGAGAAACAGACACAGCC	403
OY	404	AGGCATCATACGACACTCTCGGGGATACGCTGGAAAGCGCAATCTACTGTGGATCTC	463
Db	404	AGGTCATCATTCGACACTCTCGGGGATACGCTGGAAAGCGCATCTTACTGTGGATCTC	463
OY	464	TGCAGCAGGCCCTTGGGCAAGGCCGAGATCTGTGCTCCACACTGAAAAAGCAGATGAAGT	523
Db	464	TGCAGCAGGCCCTTGGGCAAGGCCGAGATCTGTGCTCCACACTGAAAAAGCAGATGAAGT	523
OY	524	ACTTAGAGCAGCAGCAGGATGATGACAAACCAACAGCACAGAGAGAGCGGGCGGCTCAGGA	583
Db	524	ACTTAGAGCAGCAGCAGGATGATGACAAACCAACAGCACAGAGAGAGCGGGCGGCTCAGGA	583
OY	584	GCAAGATGAAGACCATGAGACATTTGACCTTCTACTCCAGAGCCAGCTCCCTGAGGGGG	643
Db	584	GCAAGATGAAGACCATGAGACATTTGACCTTCTACTCCAGAGCCAGCTCCCTGAGGGGG	643
OY	644	AGGAGATGATCCGAGACATGGGTGTGGGACAGTCAGCGGTGAAACAGCTGGGCTGTACT	703
Db	644	AGGAGATGATCCGAGACATGGGTGTGGGACAGTCAGCGGTGAAACAGCTGGGCTGTACT	703
OY	704	GTGTGTCTCTCAGAGAAAGATACGACAAATCTAAAGAGGCGACGGAAGCCTTCAGGGGAGG	763
Db	704	GTGTGTCTCTCAGAGAAAGATACGACAAATCTAAAGAGGCGACGGAAGCCTTCAGGGGAGG	763
OY	764	TGGCTGCAAGCTGAGGAAGATTTGTTTCCCGAAGAACAGTTGAGACAGTACT	823
Db	764	TGGCTGCAAGCTGAGGAAGATTTGTTTCCCGAAGAACAGTTGAGACAGTACT	823
OY	824	CTGAATTTGATCAGGCCCAATTTGAACTAGACTAGACGCCAGAGGACATTAAGAGTGGTG	883
Db	824	CTGAATTTGATCAGGCCCAATTTGAACTAGACTAGACGCCAGAGGACATTAAGAGTGGTG	883
OY	884	ACAAGGAATATCATGACCTCTGAAAAAGAGCTAACGATGCTGCAGGAAACCTTGAACCTGC	943
Db	884	ACAAGGAATATCATGACCTCTGAAAAAGAGCTAACGATGCTGCAGGAAACCTTGAACCTGC	943
OY	944	CACAGATGGCCAGTGAACATGTCGACCGCTGTTTAAAGAGCCACCCCTGTGGAGG	1003
Db	944	CACAGATGGCCAGTGAACATGTCGACCGCTGTTTAAAGAGCCACCCCTGTGGAGG	1003
OY	1004	TGAATCTGAAGCTCCGGCGGSCATACCTCCGATGATATTTATCTCAATGCTACCTTTG	1063
Db	1004	TGAATCTGAAGCTCCGGCGGSCATACCTCCGATGATATTTATCTCAATGCTACCTTTG	1063
OY	1064	ATGTGATATCTCCCCAGGCCCGGCTCCAGCTCCAGCATGGTTACTACGAAAAACTTT	1123
Db	1064	ATGTGATATCTCCCCAGGCCCGGCTCCAGCTCCAGCATGGTTACTACGAAAAACTTT	1123
OY	1124	GCCATAGGAAGTCACTCTCCCAATTCAGGATGTCCCAAGAAATATGCAAAAGGCCCA	1183
Db	1124	GCCATAGGAAGTCACTCTCCCAATTCAGGATGTCCCAAGAAATATGCAAAAGGCCCA	1183
OY	1184	GGAAGAGTCCACAGCTCTCACTGGGTGGCCAGAGCTGTGCAGAGAGCGAGTGTGAGAAC	1243
Db	1184	GGAAGAGTCCACAGCTCTCACTGGGTGGCCAGAGCTGTGCAGAGAGCGAGTGTGAGAAC	1243
OY	1244	TGGTTGTGCTTCCCTATTTTGTCCGGAATGCCATCTTAGGCCAGAAAGGCCCAAA	1303
Db	1244	TGGTTGTGCTTCCCTATTTTGTCCGGAATGCCATCTTAGGCCAGAAAGGCCCAAA	1303
OY	1304	GGCCCAAGGTCAAGATCCTCTTGGAGCAAGATGTGTTAAGGACAGGCTTCGATGGGCTCG	1363
Db	1304	GGCCCAAGGTCAAGATCCTCTTGGAGCAAGATGTGTTAAGGACAGGCTTCGATGGGCTCG	1363
OY	1364	GTGGCGGAGCAAAATTTATCTACAGCTACTAGACACAGTCAATGATCCGCCATTTGCTGTGA	1423
Db	1364	GTGGCGGAGCAAAATTTATCTACAGCTACTAGACACAGTCAATGATCCGCCATTTGCTGTGA	1423
OY	1424	AGCCCAACACCAAGTTTAAAGCAGAGGGTGAAGGCTGCAAGCCGTGCTTCTCTTCCAGG	1483

Db	Accession	Gene	Protein	Length	Score	E-value	Bits	Identities	Positives	Gaps	Conserved Domains	Annotations
Db	1424	ABCC6	ABCC6	1483	1483	1e-160	1483	100%	100%	0%	ABCC6	ABCC6
Db	1484	CCAGC	CCAGC	1543	1543	1e-160	1543	100%	100%	0%	CCAGC	CCAGC
Db	1484	CCAAG	CCAAG	1543	1543	1e-160	1543	100%	100%	0%	CCAAG	CCAAG
Db	1544	TGCTG	TGCTG	1601	1601	1e-160	1601	100%	100%	0%	TGCTG	TGCTG
Db	1544	TGCTG	TGCTG	1601	1601	1e-160	1601	100%	100%	0%	TGCTG	TGCTG
Db	1602	TTCGG	TTCGG	1661	1661	1e-160	1661	100%	100%	0%	TTCGG	TTCGG
Db	1604	TTCGG	TTCGG	1663	1663	1e-160	1663	100%	100%	0%	TTCGG	TTCGG
Db	1662	AGACG	AGACG	1721	1721	1e-160	1721	100%	100%	0%	AGACG	AGACG
Db	1664	AGACG	AGACG	1723	1723	1e-160	1723	100%	100%	0%	AGACG	AGACG
Db	1722	CCACG	CCACG	1780	1780	1e-160	1780	100%	100%	0%	CCACG	CCACG
Db	1724	CCACG	CCACG	1783	1783	1e-160	1783	100%	100%	0%	CCACG	CCACG
Db	1781	CAGAT	CAGAT	1840	1840	1e-160	1840	100%	100%	0%	CAGAT	CAGAT
Db	1784	CAGAT	CAGAT	1843	1843	1e-160	1843	100%	100%	0%	CAGAT	CAGAT
Db	1841	GGACG	GGACG	1900	1900	1e-160	1900	100%	100%	0%	GGACG	GGACG
Db	1844	GGACG	GGACG	1903	1903	1e-160	1903	100%	100%	0%	GGACG	GGACG
Db	1901	TTCCT	TTCCT	1959	1959	1e-160	1959	100%	100%	0%	TTCCT	TTCCT
Db	1904	TTCCT	TTCCT	1962	1962	1e-160	1962	100%	100%	0%	TTCCT	TTCCT
Db	1960	ATGAG	ATGAG	2007	2007	1e-160	2007	100%	100%	0%	ATGAG	ATGAG
Db	1963	ATGAG	ATGAG	2010	2010	1e-160	2010	100%	100%	0%	ATGAG	ATGAG

PA (U90) UNIV ROCKEFELLER.
 XX Lee SY, Choi Y;
 XX MPI: 2002-225005/28.
 DR P-PSDB: AAE19854.
 XX
 XX New tumor necrosis factor receptor associated factor interacting
 PT protein, useful for inhibiting NF-kappa B activation, and for
 PT modulating signals responsible for cell activation, cell proliferation
 PT and cell death -
 XX
 PS Example 2; Fig 8B; 37pp; English.
 CC The present invention relates to a tumor necrosis factor (TNF) receptor
 CC associated factor (TRAF) interacting protein (TRIP), which is a regulator
 CC capable of binding to TRAF2. TRIP is useful for inhibiting NF-kappa B
 CC activation and for modulating signals responsible for cell activation,
 CC cell proliferation and cell death. Thus, TRIP is useful for treating
 CC diseases associated with altered cell proliferation and cell death. The
 CC present sequence is mouse TRIP cDNA.
 CC Note: This sequence SEQ ID NO:8 is stated to be similar to the sequence
 CC shown in the sequence listing. However the sequence shown in sequence
 CC listing lacks few bases at the end of each line.
 XX
 XX Sequence 1975 BP; 530 A; 488 C; 533 G; 424 T; 0 other;
 SQ
 Query Match 53.9%; Score 1081; DB 24; Length 1975;
 Best Local Similarity 74.6%; Pred. No. 7,6e-283;
 Matches 1504; Conservative 0; Mismatches 450; Indels 63; Gaps 9;

Db 608 TGGAGCAAAATTGAGCTCCTACTCCAGAGCCAGCTTCTGAGGTGAGAGATATTGCG 667
 QY ACATGGGTGGAGACAGTACGCGGTGAACACAGCTGGCTGTACTGTGCTCACA 718
 Db 668 ACATGGGTGGAGACAGTACGCGGTGAACACAGCTGGCTGTACTGTGCTCACA 727
 QY AAGAGTACGAAATCTAAAGAGGACGGAAGCCCTCAGGGAGGTGGCTGACAAGCTGA 778
 Db 728 AAGAGTACGAAATCTAAAGAGGACGGAAGCCCTCAGGGAGGTGGCTGACAAGCTGA 787
 QY 779 GGAAGATTGTTTCTTCTCCAGACAGTGTCCAGACAGTCTACTCTGATTTGATCAG 838
 Db 788 AGAAGATTGTTTCTTCTCCAGACAGTGTCCAGACAGTCTACTCTGATTTGATCAG 847
 QY 839 CCAAGTTAGAACTGAAGTACGCGGAGGAACTTACAGAGTGTCAAGAAATCATGA 898
 Db 848 CCAAGTTAGAACTGAAGTACGCGGAGGAACTTACAGAGTGTCAAGAAATCATGA 907
 QY 899 GCGTAAAGAAAGCTAAGATGCTGACAGAAACCTTGAACTGCACCAAGTGGCAGTG 958
 Db 908 GCGTAAAGAAAGCTAAGATGCTGACAGAAACCTTGAACTGCACCAAGTGGCAGTG 967
 QY 959 AGACTGTGACCGCCTGGTTTGAAGAGCCAGCCCTGTGA---GGTGAATCTGAAGC 1015
 Db 968 AGACGTCAGCCGCTGTTTGAAGAGCCAGCCCTGTGAAGTGAATGAACCCGAGGC 1027
 QY 1016 TCCGCGGCGCATCTCCGATGATATTGATCTGCATGCTCTTGTGATGTGATCTC 1075
 Db 1028 TTCCACAGCACCTCTGCTGATGATGATGATGATGATGATGATGATGATGATGAT 1087
 QY 1076 CCCCAGCCCGCCCTCCAGCTCCAGCATGTTACTAGCAAAAACCTTGCTTGAAGT 1135
 Db 1088 CTCACACCCAGCATCTGCTCCAGCATGCTCCCAAGAAAGTGTGCTGAGAGGG 1147
 QY 1136 CACACTCCCAATTCAGATGTCCTCCCAAGAAATATGCAAAAGCCCAAGAGAGTCCC 1195
 Db 1148 CACGCTCTCCATGAGAAATGCTCCCAAGAAATATGCAAAAGCCCAAGAGAGTCCC 1207
 QY 1196 AGCTCTACTGGGTGGAGAGAGTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1255
 Db 1208 AGCTCTACTGGGTGGAGAGAGTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1267
 QY 1256 TCCCTAATTTGTCCGAAATGCCATCTAGGCCAGAAACAGCCCAAGCCAGTCA 1315
 Db 1268 TCCCTAATTTGTCCGAAATGCCATCTAGGCCAGAAACAGCCCAAGCCAGTCA 1327
 QY 1316 ACTCCTTTGCAAGAAATGTTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1375
 Db 1328 AATCCCGAAGCAGACAGATGTGTAAGAAATAGGCTTGTGAGGCTTGAGAGAGAG 1387
 QY 1376 AATTCATCCAGCCTACTGACACAGTCATGATCCGCCAATTCGCTTGAAGCCACAGCA 1435
 Db 1388 AATTCATCCAGCCTACTGACACACACATTTATCCGACAGTGGCTTTGAAGTCACAGGCA 1447
 QY 1436 AGTTAAGCAGAGGTGAAGGTGAAGCCGTGCTCTCTCTCCAGCCCAAGCTGAC 1495
 Db 1448 AGAGTAAACAGAAAGTGAAGTGAAGTGTCTGCTCCAGCCCAAGCTGAC 1507
 QY 1496 CTTTCCTGTTGCTGTAAGAGAGTGTGACCAATGAGCCAGACATGCTGCACTT 1555
 Db 1508 CTTTCCTGTTGCTGTAAGAGAGTGTGACCAATGAGCCAGACATGCTGCACTT 1552
 QY 1556 GTAGTCAAGAGCTGTCA---GGCAGGTTTGTGACAGAGCCCTACTTGGGACAGC 1613
 Db 1558 GTAGTCAAGAGCTGTCA---GGCAGGTTTGTGACAGAGCCCTACTTGGGACAGC 1622
 QY 1614 CTGAGGTGTAAAGGAGCAAAACAGGTGAGGTGTGACACCCAGACAGCTGCTTTC 1673
 Db 1616 CTGAGGTGTAAAGGAGCAAAACAGGTGAGGTGTGACACCCAGACAGCTGCTTTC 1682
 QY 1674 CTGCTTCAACCTTGGCCCACTCTACAGCTGGAGAGCTACATGACAGCCAGCTGATCT 1733
 Db 1676 CTGCTTCAACCTTGGCCCACTCTACAGCTGGAGAGCTACATGACAGCCAGCTGATCT 1742
 QY 1641 CTGTGTTCACTGCGCCCTGACACAC---ACTGGGAAGCCACATGACAGCTTACTGTCCG 1698

QY 1390 ----- 1389
Db 1007 GTGCAACAGACCTCAGGTGTGNAGTGTGGCCCTCATTTGTGTGNTCAGGCCGCCACC 1066
QY 1390 ----- 1389
Db 1067 CCCGGCTGTAGGCTTCTTGTCCCTGNATNGMGTCTTCTGCCCCGTGACGTCC 1126
QY 1390 ----- 1409
Db 1127 TTCTCCATGCTCTTCTTCAACNGCTCTCCAACTAAACTGACACATCATGATCCG 1186
QY 1410 CCCATTGCTGTTAAAGCCCAAGACCAAGTTAAAGCAGAGGGTGAAGCCGTGCC 1469
Db 1187 CCCATTGCTGTTAAAGCCCAAGACCAAGTTAAAGCAGAGGGTGAAGCCGTGCC 1246
QY 1470 TTCTCTTTCAGGCCCAAGTGTGACACTTCTCTGTGTCTGTAGAACAGTGTGATCC 1529
Db 1247 TTCTCTTTCAGGCCCAAGTGTGACACTTCTCTGTGTCTGTAGAACAGTGTGATCC 1306
QY 1530 AATGCCAGACACATGCTGCTCACTTGTAGTCAAGAGACTGTCCAGGACAGG - TTTGTG 1587
Db 1307 AATGGCCAGACACATGCTGCTCACTTGTAGTCAAGAGACTGTCCAGGACAGGTTTGTG 1366
QY 1588 GACAGAGCCCTACTTTCGGGACCAAGCTGAAGTGAAGGGCAGACAAACAGTGAAGGTTG 1647
Db 1367 GACAGAGCCCTACTTTCGGGACCAAGCTGAAGTGAAGGGCAGACAAACAGTGAAGGTTG 1426
QY 1648 AGTGTACACACCCAGACACTCTTCTGCTGCTCACCCTCCCTCCCTACGACTGGGA 1707
Db 1427 AGTGTACACACCCAGACACTCTTCTGCTGCTCACCCTCCCTCCCTACGACTGGGA 1486
QY 1708 GCTGACATGACAGCCACCTGATCTGTGACAGAGTCTCT - CTGTTGCCAGCTCTTG 1766
Db 1487 GCTGACATGACAGCCACCTGATCTGTGACAGAGTCTCTCTCTGTGCGAGGCTCTG 1546
QY 1767 TTTATAGCCATGATCAGAGTGTGTCAAGACTCTTCTGCGGCTTGAGACACAGGTCACCTTG 1826
Db 1547 TTTATAGCCATGATCAGAGTGTGTGTCAAGACTCTTCTGCGGCTTGAGACACAGGTCACCTTG 1606
QY 1827 TTTGACGTCTCTGTGACACCAAGTGTGATCTGAGGATCTCAGGACGCTCAGCCCAAGCTTC 1886
Db 1607 TTTGACGTCTCTGTGACACCAAGTGTGATCTGAGGATCTCAGGACGCTCAGCCCAAGCTTC 1666
QY 1887 TACCTGCTTGTGACTTGTCTTA - GCATAGCCTGGGGCAGAGGGTGGGAATGAGGA 1945
Db 1667 TACCTGCTTGTGACTTGTCTTAAGGCATACCTGGGGCAGAGGGTGGGAATGAGGA 1726
QY 1946 TAGACATGGGATGTATGAGAGGATGGAGATTTTCCCGAATAAAAAAAAAA 2001
Db 1727 TAG - CATGGGATGTATGAGAGGATGGAGATTTTTCATGTAAATATAAATTAATAA 1781

RESULT 6
ABA95683
ID ABA95683 standard; DNA; 7542 BP.
XX
AC ABA95683;
XX
DT 03-APR-2002 (first entry)
XX
DE Human protein kinase gene.
XX
DE Human protein kinase gene.
XX
KW Human: protein kinase; enzyme; gene; brain; lung; hippocampus;
KW calmodulin-binding kinase; gene therapy; chromosome 3;
KW single nucleotide polymorphism; SNP; ds.
XX
XX Homo sapiens.
XX
XX OS
XX
XX Key location/Qualifiers
XX FH replace(234,A)
XX FT /tag= a
XX FT /standard_name= "Single nucleotide polymorphism"

FT variation
FT /tag= b
FT /standard_name= "Single nucleotide polymorphism"
FT CDS
FT 1473..4544
FT /tag= c
FT /product= "Human protein kinase"
FT /transl_except= (pos:4275..4277, aa:Val)
FT /note= "contains 9 introns"
FT exon
FT 1473..1567
FT /tag= d
FT /number= 1
FT /replace(1499,T)
FT /tag= e
FT /standard_name= "Single nucleotide polymorphism"
FT 1568..1684
FT /tag= f
FT /number= 1
FT 1685..1816
FT /tag= g
FT /number= 2
FT 1817..1996
FT /tag= h
FT /number= 2
FT 1997..2071
FT /tag= i
FT /number= 3
FT 2072..2284
FT /tag= j
FT /number= 3
FT 2285..2423
FT /tag= k
FT /number= 4
FT 2424..2561
FT /tag= l
FT /number= 4
FT 2562..2682
FT /tag= m
FT /number= 5
FT 2683..2843
FT /tag= n
FT /number= 5
FT 2844..2919
FT /tag= o
FT /number= 6
FT 2920..3009
FT /tag= p
FT /number= 6
FT 3010..3146
FT /tag= q
FT /number= 7
FT /replace(3022,T)
FT /tag= r
FT /standard_name= "Single nucleotide polymorphism"
FT 3147..3312
FT /tag= s
FT /number= 7
FT /replace(3295,T)
FT /tag= t
FT /standard_name= "Single nucleotide polymorphism"
FT 3313..3391
FT /tag= u
FT /number= 8
FT 3392..3603
FT /tag= v
FT /number= 8
FT 3604..3691
FT /tag= w
FT /number= 9
FT 3692..3980
FT /tag= x
FT /number= 9
FT 3981..4541
FT /tag= y


```
FT      variation /number= 10
FT      /replace(4677,T)
FT      /*tag= z
FT      /standard_name= "Single nucleotide polymorphism"
FT      /replace(5583,Y)
FT      variation
FT      /*tag= aa
FT      /standard_name= "Single nucleotide polymorphism"
FT      /replace(6242,C)
FT      variation
FT      /*tag= ab
FT      /standard_name= "Single nucleotide polymorphism"
FT      /replace(7264,G)
FT      variation
FT      /*tag= ac
FT      /standard_name= "Single nucleotide polymorphism"
FT      /replace(7264,G)
XX      WO200192492-A2.
XX      06-DEC-2001.
XX      30-MAY-2001; 2001WO-US17327.
XX      30-MAY-2000; 2000US-207281P.
XX      12-DEC-2000; 2000US-0734030.
XX      (APPL-) APPLERA CORP.
XX      Yan C, Wei M, Ketchum K, Merkulov G, Beasley EM;
XX      WPI: 2002-097770/13.
XX      P-PSDB; AAM48279.
XX      New calmodulin-binding kinase peptides and nucleic acid encoding the
XX      peptides, useful as models for developing human therapeutic targets or
XX      in screening for compounds that modulate kinase
XX      Claim 4: Fig 3; 75pp; English.
XX      The present sequence is a human protein kinase gene. The protein kinase
XX      coding sequence (see ABA95682) is expressed in the brain (both infant
XX      and adult brain), lung and hippocampus. The protein kinase is related to
XX      the calmodulin-binding kinase subfamily. The protein kinase and its
XX      coding sequence can be used as models for the development of human
XX      therapeutic targets, in the identification of therapeutic proteins, and
XX      serve as targets for the development of human therapeutic agents that
XX      modulate kinase activity in cells and tissues that express the kinase. In
XX      addition, the protein kinase coding sequence can be used for treating a
XX      disorder associated with nucleic acid expression of the kinase gene,
XX      particularly biological and pathological processes that are mediated by
XX      the kinase in cells and tissues that express it, as antisense constructs
XX      to control kinase gene expression in cells, tissues or organisms, and in
XX      gene therapy. The protein kinase gene maps to chromosome 3.
XX      SO      Sequence 7542 BP; 1612 A; 1977 C; 2156 G; 1797 T; 0 other;
XX      Query Match      8.8%; Score 176.4; DB 24; Length 7542;
XX      Best Local Similarity 95.1%; Pred. No. 5.3e-37;
XX      Matches 194; Conservative 0; Mismatches 6; Indels 4; Gaps 1;
QY      1 GTGCGGTGAGCGCAATTGTAAGACGAGCGGGGCG-----CTTACGAGACCGCGAC 56
DB      7302 GTGCGGTGAGCGCAAAATTGTAAGACGAGCGGGGCGGCTTACGAGACCGCGAC 7361
QY      57 CTGTAGAGATTTCTTTGGTGGCTGGGCGGCTTGTAGTCAGCCATGCTATCGGTGC 116
DB      7362 CTGTAGAGATTTCTTTGGTGGCTGGGCGGCTTGTAGTCAGCCATGCTATCGGTGC 7421
QY      117 TGTGTGACATATGCTGTCGACATCTTTCGATCACTCCGCGAGCTGGCCGACATCCACTG 176
DB      7422 TGTGTGACATATGCTGTCGACATCTTTCGATCACTCCGCGAGCTGGCCGACATCCACTG 7481
QY      177 CGGCGACACCTTCACATTCGAGTG 200
DB      7482 CGGCGACACCTTCACATTCGAGTG 7505
```

```
RESULT 7
AAS27719/C
ID      AAS27719 standard; DNA; 148 BP.
XX      AAS27719;
AC      XX
XX      07-NOV-2001 (first entry)
XX      DE
XX      DNA encoding novel signal transduction pathway protein, Seq ID 1379.
XX      Neuroprotective; cytostatic; dermatological; immunosuppressive; tumour;
XX      antiinflammatory; anti-HIV; antibacterial; antiinflammatory; cancer;
XX      immune system disorder; rheumatoid arthritis; inflammatory condition;
XX      organ transplant rejection; infection; hepatitis C; blood disorder;
XX      sickle cell anaemia; hyperproliferative disorder; Gaucher's disease;
XX      neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;
XX      chromosomal abnormality; Down syndrome; ischaemia; renal disorder;
XX      cardiovascular; respiratory; wound healing; endocrine; Addison's disease;
XX      reproductive system; gastrointestinal; liver disorder; AIDS; ds;
XX      acquired immune deficiency syndrome.
XX      Homo sapiens.
XX      OS
XX      PN
XX      WO200154733-A1.
XX      PD      02-AUG-2001.
XX      PF      17-JAN-2001; 2001WO-US01312.
XX      PR      31-JAN-2000; 2000US-0179065.
XX      PR      04-FEB-2000; 2000US-0180628.
XX      PR      24-FEB-2000; 2000US-0184664.
XX      PR      02-MAR-2000; 2000US-0186350.
XX      PR      16-MAR-2000; 2000US-0189874.
XX      PR      17-MAR-2000; 2000US-0190076.
XX      PR      18-APR-2000; 2000US-0198123.
XX      PR      19-MAY-2000; 2000US-0205515.
XX      PR      07-JUN-2000; 2000US-0209467.
XX      PR      28-JUN-2000; 2000US-0214886.
XX      PR      30-JUN-2000; 2000US-0215135.
XX      PR      07-JUL-2000; 2000US-0216647.
XX      PR      07-JUL-2000; 2000US-0216880.
XX      PR      11-JUL-2000; 2000US-0217487.
XX      PR      11-JUL-2000; 2000US-0217496.
XX      PR      14-JUL-2000; 2000US-0218290.
XX      PR      26-JUL-2000; 2000US-0220963.
XX      PR      26-JUL-2000; 2000US-0220964.
XX      PR      14-AUG-2000; 2000US-0224518.
XX      PR      14-AUG-2000; 2000US-0224519.
XX      PR      14-AUG-2000; 2000US-0225213.
XX      PR      14-AUG-2000; 2000US-0225214.
XX      PR      14-AUG-2000; 2000US-0225266.
XX      PR      14-AUG-2000; 2000US-0225267.
XX      PR      14-AUG-2000; 2000US-0225268.
XX      PR      14-AUG-2000; 2000US-0225270.
XX      PR      14-AUG-2000; 2000US-0225447.
XX      PR      14-AUG-2000; 2000US-0225757.
XX      PR      14-AUG-2000; 2000US-0225758.
XX      PR      14-AUG-2000; 2000US-0225759.
XX      PR      18-AUG-2000; 2000US-0226279.
XX      PR      22-AUG-2000; 2000US-0226681.
XX      PR      22-AUG-2000; 2000US-0226688.
XX      PR      22-AUG-2000; 2000US-0227182.
XX      PR      23-AUG-2000; 2000US-0227009.
XX      PR      30-AUG-2000; 2000US-0228924.
XX      PR      01-SEP-2000; 2000US-0229287.
XX      PR      01-SEP-2000; 2000US-0229343.
XX      PR      01-SEP-2000; 2000US-0229344.
XX      PR      01-SEP-2000; 2000US-0229345.
XX      PR      05-SEP-2000; 2000US-0229509.
XX      PR      05-SEP-2000; 2000US-0229513.
XX      PR      06-SEP-2000; 2000US-0230437.
```



```

RESULT 8
ID ABN41009
ABN41009 standard; DNA: 60 BP.
XX
AC ABN41009;
XX
DT 15-JUL-2002 (first entry)
XX
DE Human spliced transcript detection oligonucleotide SEQ ID NO:13757.
XX
KW Human; mouse; rat; splice transcript; detection; RNA transcript;
KW splice variant; transcriptome; oligonucleotide library; ss.
XX
OS Homo sapiens.
XX
PN WO200210449-A2.
XX
PD 07-FEB-2002.
XX
PF 20-JUL-2001; 2001WO-IB01903.
XX
PR 28-JUL-2000; 2000US-221607P.
PR 02-MAY-2001; 2001US-287724P.
XX
PA (COMP-) COMPUGEN INC.
XX
PI Shoshan A, Wasserman A, Mintz E, Mintz L, Faigler S;
XX
DR WPI; 2002-257383/30.
XX
PT New oligonucleotide libraries comprising oligonucleotides which
PT selectively hybridize to mRNAs transcribed from a transcription unit of
PT a genome, useful for detecting tissue-, pathology-, and
PT developmental-specific genes
XX
PS Example 1; SEQ ID 13757; 47pp; English.
XX
CC The present invention describes oligonucleotide libraries for detecting
CC messenger RNAs that populate a (sub-)transcriptome, where the
CC (sub-)transcriptome comprises messenger RNAs transcribed from multiple
CC transcription units that populate a genome. The library comprises
CC several oligonucleotides, each capable of hybridising selectively to a
CC set of messenger RNAs transcribed from a given transcription unit of
CC the genome, which encodes one or more messenger RNA splice variants.
CC The oligonucleotide libraries are useful for detecting mRNAs from a
CC biological sample, in expression profiling studies, in qualitatively or
CC quantitatively characterising the corresponding transcriptome, and in
CC detecting RNA transcripts and splice variants of human or animal
CC transcriptomes. The libraries may also be used as specialised mini
CC libraries to detect transcripts of a sub-transcriptome under a
CC particular biological or pathological state, and so allowing the
CC detection of tissue- and pathology-specific genes such as those genes
CC only expressed in specific tissue under a specific pathological
CC condition; to detect developmental specific genes; and to detect RNA
CC transcripts and splice variants of a transcriptome of a patient suffering
CC from a particular disorder. ABN27253 to ABN55589 represent
CC oligonucleotide sequences from rats, humans and mice, which are used in
CC the exemplification of the present invention.
CC N.B. The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 60 BP; 16 A; 16 C; 16 G; 12 T; 0 other:

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Query Match      3.0%; Score 60; DB 24; Length 60;
Best Local Similarity 100.0%; Pred. No. 2e-06;
Matches 60; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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OY 1519 TGAGTGTGACCAATGGCCAGACACATGCTGCAACTGTGTAGTGCACAGAGCTGCCAGCA 1578
DB 1 TGAGTGTGACCAATGGCCAGACACATGCTGCAACTGTGTAGTGCACAGAGCTGCCAGCA 60

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RESULT 9
ID AAA30290
AAA30290 standard; DNA: 3489 BP.
XX
AC AAA30290;
XX
DT 11-SEP-2000 (first entry)
XX
DE Kaposi's sarcoma-associated herpesvirus LANA gene.
XX
KW Kaposi's sarcoma-associated herpesvirus; KSHV; rhadino virus;
KW latency-associated nuclear antigen; LANA; gamma-2 herpes virus;
KW Human herpes virus 8; HHV8; rhadino virus cis-acting element; RVCAR;
KW Kaposi's sarcoma; primary effusion lymphoma; PEL;
KW human immunodeficiency virus; HIV; multicentric Castlemann's disease; ds.
XX
OS Kaposi's sarcoma-associated herpesvirus.
XX
FH Key Location/Qualifiers
FT CDS 1..3489
FT FT /*tag= a
FT FT /product= "LANA"
FT FT 40..50
FT FT /*tag= b
FT FT /note= "nuclear localisation signal, NLS"
FT FT 190..210
FT FT /*tag= c
FT FT /note= "nuclear localisation signal, NLS"
XX
PN WO200029626-A1.
XX
PD 25-MAY-2000.
XX
PF 19-NOV-1999; 99WO-US27508.
XX
PR 19-NOV-1998; 98US-0109422.
PR 21-APR-1999; 99US-0298568.
XX
PA (KIEF/) KIEFF E D.
PA (BAL/) BALLESTAS M E.
PA (KAYE/) KAYE K M.
XX
PI Kieff ED, Ballestas ME, Kaye KM;
XX
DR WPI: 2000-387829/33.
DR P-PSDB: AAY96255.
XX
PT Treating or preventing a disease associated with rhadino virus
PT infection in a mammal which includes Kaposi's Sarcoma and Primary
PT Effusion Lymphoma
XX
PS Disclosure: Fig 6; 70pp; English.
XX
CC The present sequence is the Kaposi's sarcoma-associated herpesvirus,
CC (KSHV) latency-associated nuclear antigen (LANA) gene. KSHV is also known
CC as Human Herpes Virus 8 (HHV8) and belongs to the rhadino virus, or
CC gamma-2 herpes virus class. The LANA protein is necessary for the
CC efficient persistence of rhadino virus DNA in mammalian cells. Persistent
CC rhadino virus infection is implicated in a variety of diseases e.g.
CC Kaposi's Sarcoma (KS), Primary Effusion Lymphoma (PEL) and multicentric
CC Castlemann's disease. In addition, KS is a common malignancy in HIV
CC patients. KSHV persists in host cells in a latent form. One of the few
CC genes expressed from the latent viral DNA is LANA. LANA associates with
CC both human chromosomes and with the rhadino virus cis-acting element
CC (RVCAR), thereby providing a tethering function: the KSHV DNA episome is
CC "tied" to the host chromosomes. This allows the viral DNA to persist in
CC the host cell. The present sequence may be used to screen and identify
CC molecules that inhibit LANA interaction with RVCAR, thereby interfering
CC with the latency cycle of this virus. Potential antiviral treatments for
CC the above mentioned diseases may therefore be based on LANA deregulation.
XX

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Sequence 3489 BP; 1053 A; 862 C; 1137 G; 437 T; 0 other;

Query Match 2.6%; Score 52; DB 21; Length 3489;
Best Local Similarity 48.9%; Pred. No. 0.0021;
Matches 139; Conservative 0; Mismatches 145; Indels 0; Gaps 0;

QY 505 CTGAAAAAGCAGTGAAGTACTTAGAGCAGCAGCAGAGTGAAGCAAAACAGCACAAGAG 564
DB 2212 CAGGATGACGACGAGCAGAGGATGAGCAGCAGCAGAGTGAACAGAGCAGCAGAG 2271
QY 565 GAGCGCGCGCGCTCAGAGCAGCAGATGAAGACCATGAGCAGATTTAGCTTCTACTCCAG 624
DB 2272 GAGCAGAGCAGCAGAGCAGAGCAGAGCAGAGTGAAGAGCAGCAGAGCAGAGTGAAG 2331
QY 625 AGCCAGCTCCCTGAGGTGAGAGATGATCCGACATGGGTGGACAGTCAGCGGTG 684
DB 2332 GATCAGAGCAGCAGAGTGAAGAGCAGCAGCAGAGTGAAGAGCAGCAGAGCAGAGTGA 2391
QY 685 GAACAGCTGCTGTGTACTGTGTCTCTCAGAAAGAGTACGAGAACTTAAAGAGCA 744
DB 2392 GAGGAGCAGAGCAGAGTGAAGAGCAGCAGAGCAGAGTGAAGAGCAGCAGAGCAGAG 2451
QY 745 CGGAAGCGCTCAGAGGAGTGGCTGACAGCTGAGAGAGATT 788
DB 2452 TTAGAGGACGAGCAGAGGAGTGAAGAGCAGCAGAGCAGAGT 2495

RESULT 10
AAFB2901
ID AAFB2901 standard; DNA; 3489 BP.
XX
AC AAFB2901;
XX
DT 29-JUN-2001 (first entry)
XX
DE Nucleotide sequence of KSHV tethering protein, LANA:
XX
KW Histone H1; tethering protein; LANA; gene therapy; multiple sclerosis;
KW Parkinson's disease; Huntington disease; diabetes; human herpesvirus 8;
KW KSHV; latency-associated nuclear antigen; LANA; ds.
XX
OS Kaposi's sarcoma associated herpesvirus.
XX
FH Key Location/Qualifiers
FT 1..3489
FT CDS /*tag= a
XX
PN WO200125484-A2.
XX
PD 12-APR-2001.
XX
PF 29-SEP-2000; 2000WO-US26908.
XX
PR 01-OCT-1999; 99US-0410399.
XX
PA (UNMI) UNIV MICHIGAN.
XX
PI Robertson ES, Colter MA;
XX
DR WPI: 2001-281736/29.
XX
DR P-PSDB: AAB62331.
XX
PT A composition for use in gene therapy comprises an expression vector
PT that includes a nucleic acid sequence encoding a nucleic acid binding
PT protein
XX
XX
PS Disclosure: Fig 9A: 60pp; English.
XX
CC The invention provides a composition comprising nucleic acid, histone H1
CC protein and expression vector operationally encoding a protein suitable
CC for tethering the nucleic acid to the histone H1 protein, where the
CC tethering protein is LANA. The composition is useful in aiding the
CC retention of the viral DNA in the host cell. The viral vector encodes a

CC protein suitable for tethering DNA to Histone H1. Methods for screening
CC for compounds which are agonistic or antagonistic for the tethering of
CC viral proteins to histone H1 and DNA binding sites are useful for
CC developing the method of viral transfer. The composition has applications
CC to gene therapy, including the treatment of multiple sclerosis,
CC Parkinson's disease, Huntington disease and diabetes. The present
CC sequence represents the nucleotide sequence of the Kaposi's sarcoma
CC associated herpesvirus (human herpesvirus 8) latency-associated nuclear
CC antigen (LANA), which acts as a tethering protein.
XX

Sequence 3489 BP; 1053 A; 862 C; 1137 G; 437 T; 0 other;

Query Match 2.6%; Score 52; DB 22; Length 3489;
Best Local Similarity 48.9%; Pred. No. 0.0021;
Matches 139; Conservative 0; Mismatches 145; Indels 0; Gaps 0;

QY 505 CTGAAAAAGCAGTGAAGTACTTAGAGCAGCAGCAGAGTGAAGCAAAACAGCACAAGAG 564
DB 2212 CAGGATGACGACGAGCAGAGGATGAGCAGCAGCAGAGTGAACAGAGCAGCAGAG 2271
QY 565 GAGCGCGCGCGCTCAGAGCAGCAGATGAAGACCATGAGCAGATTTAGCTTCTACTCCAG 624
DB 2272 GAGCAGAGCAGCAGAGCAGAGCAGAGCAGAGTGAAGAGCAGCAGAGCAGAGTGAAG 2331
QY 625 AGCCAGCTCCCTGAGGTGAGAGATGATCCGACATGGGTGGACAGTCAGCGGTG 684
DB 2332 GATCAGAGCAGCAGAGTGAAGAGCAGCAGAGCAGAGTGAAGAGCAGCAGAGCAGAGTGA 2391
QY 685 GAACAGCTGCTGTGTACTGTGTCTCTCAGAAAGAGTACGAGAACTTAAAGAGCA 744
DB 2392 GAGGAGCAGAGCAGAGGAGTGAAGAGCAGCAGAGCAGAGTGAAGAGCAGCAGAGCAGAG 2451
QY 745 CGGAAGCGCTCAGAGGAGTGGCTGACAGCTGAGAGAGATT 788
DB 2452 TTAGAGGACGAGCAGAGGAGTGAAGAGCAGCAGAGCAGAGT 2495

RESULT 11
ABA93487
ID ABA93487 standard; DNA; 3489 BP.
XX
AC ABA93487;
XX
DT 25-APR-2002 (first entry)
XX
DE Kaposi's sarcoma-associated herpesvirus LANA protein encoding DNA.
XX
KW Kaposi's sarcoma-associated herpesvirus; KSHV; LANA; RVCAE; PEL;
KW KSHV terminal repeat; rhadino virus cis acting element; episome;
KW primary effusion lymphoma; latency-associated nuclear antigen;
KW gene therapy; gene transfer; gene; ds.
XX
OS Human herpesvirus 8.
XX
FH Key Location/Qualifiers
FT 1..3489
FT CDS /*tag= a
FT FT /product= "LANA protein"
FT FT /note= "latency-associated nuclear antigen"
XX
PN US6322792-B1.
XX
PD 27-NOV-2001.
XX
PF 21-APR-1999; 99US-0298568.
XX
PR 19-NOV-1998; 98US-109422P.
XX
PA (KIEF/) KIEFF E D.
XX
PI Kieff ED, Ballestas ME, Kaye KM;
XX
DR WPI: 2002-153769/20.


```

OS Kaposi's sarcoma-associated herpes virus.
XX
FH Key Location/Qualifiers
FT CDS 1142..2794
FT     /tag= a
FT     /product= complement-binding protein
FT     8699..11236
FT     /tag= b
FT     /product= glycoprotein B
FT     complement (17261..17875)
FT     /tag= c
FT     /product= interleukin 6
FT     complement (21548..21832)
FT     /tag= d
FT     /product= macrophage inflammatory protein II
FT     complement (27137..27424)
FT     /tag= e
FT     /product= interferon regulatory factor 1
FT     28661..29741
FT     /tag= f
FT     /product= protein T1.1
FT     complement (58976..60175)
FT     /tag= g
FT     /product= glycoprotein M
FT     complement (69412..69915)
FT     /tag= h
FT     /product= glycoprotein L
FT     complement (88410..88910)
FT     /tag= i
FT     /product= interferon regulatory factor 2
FT     89600..90541
FT     /tag= j
FT     /product= interferon regulatory factor 3
FT     90173..90643
FT     /tag= k
FT     /product= glycoprotein X
FT     complement (93636..94127)
FT     /tag= l
FT     /product= interferon regulatory factor 4
FT     complement (111931..112443)
FT     /tag= m
FT     /product= capsid protein IV
FT     complement (123808..127296)
FT     /tag= n
FT     /product= immediate early protein
XX
PN MO9804576-A1.
XX
XX 05-FEB-1998.
XX
XX 22-JUL-1997; 97WO-US13346.
XX
XX 29-NOV-1996; 96US-0757669.
XX 25-JUL-1996; 96US-0686243.
XX 25-JUL-1996; 96US-0686349.
XX 25-JUL-1996; 96US-0686350.
XX 25-JUL-1996; 96US-0687253.
XX 25-JUL-1996; 96US-0688814.
XX 05-SEP-1996; 96US-0708678.
XX 10-OCT-1996; 96US-0728823.
XX 13-NOV-1996; 96US-0747887.
XX 13-NOV-1996; 96US-0748640.
XX
XX (UYCO ) UNIV COLUMBIA NEW YORK.
XX
XX Bohenzky RA, Chang Y, Edelman IS, Moore PS, Russo JJ;
XX WPI; 1998-130615/12.
XX
XX New nucleic acid encoding Kaposi's sarcoma associated herpes virus
XX proteins - useful for, e.g. detecting levels of HHV8 in, and
XX preparation of vaccines for treatment of, HIV patients
XX

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PS Example 2; Page 135-203; 230pp; English.
XX
XX This sequence represents the long unique region and terminal repeat of
CC the Kaposi's sarcoma-associated herpes virus (KSHV). KSHV is also known
CC as human herpes virus 8 (HHV8). This sequence contains the DNAs of the
CC invention which encode KSHV polypeptides selected from: (a) viral
CC macrophage inflammatory protein (MIP) II; (b) viral interleukin-6 (IL-6);
CC (c) viral IRF 1; (d) complement-binding protein; glycoproteins B, M or L;
CC (d) capsid protein IV encoded by ORF65; and (e) immediate early protein
CC encoded by ORF73. Labelled probes for the nucleic acid, proteins encoded
CC by it, and antibodies (Ab) specific for the proteins are useful for
CC detecting HHV8, specifically for diagnosis of Kaposi's sarcoma, in body
CC fluids or tissue samples. HHV8 infections can be treated with antisense
CC or triplex forming molecules or agents that bind specifically to the
CC protein. Ab may be used for prophylaxis or treatment of HHV8 infection,
CC while the protein can be used in protective vaccines. Ab may also be used
CC to differentiate between lymphomas, and HHV8 may be implicated in many
CC other lymphoproliferative diseases such as lymphomas, leukaemia,
CC splenomegaly and mycosis fungoides. Cells and animals containing the
CC nucleic acid are useful for drug screening. HHV8-derived peptides can be
CC used as targets for antiviral drugs, e.g. dihydrofolate reductase gene
CC can be inhibited with methotrexate. These can also be used to determine
CC the immune status of a patient infected with HIV. HHV8 derived protein
CC viral MIP III may be used as an anti-inflammatory agent for,
CC e.g. treating rheumatoid arthritis. This sequence is stated as containing
XX 81 open reading frames.
XX
SQ Sequence 137507 BP; 32579 A; 37795 C; 35758 G; 31375 T; 0 other:
XX
XX Query Match 2.6%; Score 52; DB 19; Length 137507;
XX Best Local Similarity 48.9%; Pred. No. 0.013;
XX Matches 139; Conservative 0; Mismatches 145; Indels 0; Gaps 0;
XX
XX QY 505 CTGAAAACAGTGAAGTACTTAGACGACGACGACGATGAGCAACCAAGCACAGAG 564
XX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 125085 CAGGATGACGACGACGACGACGATGACGACGACGACGATGACGACGACGAG 125026
XX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 565 GAGCGCGCGCGCTCAGAGCAAGTGAAGACCATGACGATGAGCTTACTCCAG 624
XX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 125025 GAGCAGAGCAGCAGAGAGAGAGCAGCAGCAGAGTGTAGAGCAGCAGAGAGTAGAG 124966
XX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 625 AGCCAGCTCCCTGAGGTGAGAGATGATCCGACATGGGTGGACATCAGCGGTG 684
XX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 124965 GATCAGACGACGACGATTTAGAGAGCAGAGCAGAGTGTAGAGCAGCAGAGGTTA 124906
XX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 685 GAACAGCTGGCTGTACTGTGTCTCTCAAGAAAGATAGAGAAATCTAAAGAGCA 744
XX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 124905 GAGGACGACGAGCAGAGGAGTTAGAGAGCAGAGCAGAGAGTTAGAGGAGCAGAGCAGAG 124846
XX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 745 CGGAGCGCTCAGAGGAGGTGCTGACAAGCTGAGAGGATTT 788
XX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 124845 TTAGAGCAGCAGCAGCAGAGGATTTAGAGAGCAGCAGCAGAGATT 124802
XX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
XX
XX RESULT 14
XX AAS60947
XX ID AAS60947 strand: cDNA: 4246 BP.
XX
XX AC AAS60947;
XX
XX XX 29-JAN-2002 (first entry)
XX
XX DE Human cancer agent-resistance marker #606.
XX
XX KW Human; cancer cell marker; TAXOL; cytostatic; tumour; carcinoma;
XX KW squamous cell carcinoma; sarcoma; fibrosarcoma; leukaemia;
XX KW lymphocytic leukaemia; lymphoma; plasmocytoma; reticulum cell sarcoma;
XX KW Hodgkin's disease; glioma; ss.
XX
XX OS Homo sapiens.
XX
XX PN WO200179556-A2.
XX

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PS Claim 1; SEQ ID 5242; 44pp; English.

XX The present invention describes a method (M1) for screening for an
CC anti-neoplastic agent. The method involves exposing cells to a chemical
CC agent to be tested for anti-neoplastic activity, determining a change in
CC expression of at least one gene (1) of a signature gene set, where (1)
CC comprises a sequence (S) selected from 8447 sequences (given in ABL61664
CC to ABL70110), or is at least 95% identical to (S), where a change in
CC expression is indicative of anti-neoplastic activity. (1) has cytostatic
CC activity and can be used in gene therapy. M1 can be used for screening
CC an anti-neoplastic agent, and can be used for producing a product which
CC is the data collected with respect to the anti-neoplastic agent as a
CC result of M1, and the data is sufficient to convey the chemical
CC structure and/or properties of the agent. M1 can be used in the
CC treatment of cancer such as colon, breast, stomach, lung, thyroid,
CC oesophageal, ovarian, kidney, prostate or pancreatic cancer,
CC adenocarcinoma, carcinoma, clear cell cancer, infiltrating ductal cancer,
CC infiltrating lobular cancer, squamous cell carcinoma, neuroendocrine
CC carcinoma, papillary carcinoma and Wilms' tumour.

XX
SQ Sequence 7596 BP; 2283 A; 1697 C; 2021 G; 1595 T; 0 other;

Query Match 2.6%; Score 51.8; DB 24; Length 7596;

Best Local Similarity 47.9%; Pred. No. 0.0036;

Matches 149; Conservative 0; Mismatches 162; Indels 0; Gaps 0;

OY 297 TCTTCCCGGAGAGAGATGTCTTGGATGAGATTTCTAAAGATGAAGTGGACAA 356
DB 4123 TCAGGAGCGACGAGAGAGAGAGAGGCCAGAAAGACTGGAGAGCAAGTGTGGC 4182
OY 357 TGTCAAGCCAGCTTTCCAGAAAGACAGAGAAACGACAGCCAGTCATCGA 416
DB 4183 CCTGAGTCCAGTTGGCTATACCAAGAAAGTAGATGACAGCTGGAAACATTGA 4242
OY 417 CACTCTGGCGGATAGCTGGAAGAACGCAATGCTACTGTGTATCTCTGACAGGCTT 476
DB 4243 AAGTCTGGAAGAACCAAGAGAGCTTGTGAAGACGCGAGGCCCTGAGCCAGCGCT 4302
OY 477 GGGCAAGCCCGAGATGCTGTCTCCACTGAAAGAGAGATGAAGTACTTAGAGACGA 536
DB 4303 GGAGGAGAGAGCACTGGCTATGACAACTGGAGAAAGACCAAGAACCGCTGACAGAGA 4362
OY 537 GCAGATGAGACCAACAAGACACAAGAGAGGCGGCGGCTCAGAGAGCAAGATGAAGAC 596
DB 4363 GCTGAGCGACTACAGGTGAGCTGAGACCAAGCGCCAGGTGCGCTCAACTTGGAGAA 4422
OY 597 CATGAGGACGA 607
DB 4423 GAAGCAGAAGA 4433

Search completed: December 13, 2002, 03:05:42
Job time : 432 secs